Ser. No.: (To be assigned/PCT/EP2004/003603)

Preliminary Amendment Accompanying National Stage Entry

Atty Docket 117163.00150

LISTING OF THE CLAIMS

We Claim:

1. (Currently amended) A stent having a metallic, relatively radiolucent carrier structure

(12, 16) comprising a cut out which is made from a metal tube as starting material by

eutting out, and at least one marker element (22) which includes comparatively

radiopaque material (32), wherein characterized in that after the cutting-out operation

the marker element (22) is welded attached to the rest of the carrier structure (12, 16)

and the radiopaque material (32) is completely enclosed by a cover layer (34) of a

material other than the radiopaque material, the cover layer (34) including a metal or a

metal compound.

2. (Currently amended) A stent as set forth in claim 1, characterized in that wherein the

stent has a carrier structure (12, 16) which is produced by cutting out legs (12, 16) and

apertures for marker elements (22) from a metal tube and the marker elements (22) are

welded into said apertures.

3. (Currently amended) A stent as set forth in claim 1, or claim 2 characterized in that

wherein the stent (10) has a self-expanding carrier structure.

(Currently amended) A stent as set forth in claim 3, characterized in that wherein the

carrier structure (12, 16) includes a shape memory metal which changes its shape at a

change temperature, wherein the stent is of such a design configuration that the stent

retains a compressed condition below the change temperature and assumes an expanded

condition above the change temperature.

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5. (Currently amended) A stent as set forth in claim 1, characterized in that wherein the

cover layer contains silicon carbide (SiC).

6. (Currently amended) A stent as set forth in claim 1, characterized in that wherein the

cover layer (34) is formed by a metal which forms the metallic carrier structure and into

which the radiopaque material (32) is let placed.

7. (Currently amended) A stent as set forth in claim 6, characterized in that wherein the

marker element (22) is formed by comprises radiopaque material (32) filling a lumen of

a tube (34) formed from the metal of the carrier structure.

8. (Currently amended) A stent as set forth in claim 7, characterized in that wherein the

tube forms at least a part of the carrier structure.

9. (Currently amended) A stent as set forth in one of claims 1 claim 8, through 8

characterized in that wherein the marker element forms at least a part of the carrier

structure in the region of a longitudinal end of the stent.

10. (Currently amended) A stent as set forth in one of claims claim 9, 1 through 9

characterized in that wherein the marker element is welded to the rest of the carrier

structure in the region of a longitudinal end of the stent (10).

11. (Currently amended) A stent as set forth in claim 1, characterized in that wherein the

metal forming the carrier structure is entirely or at least partially a titanium nickel alloy

such as nitinol.

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12. (Currently amended) A stent as set forth in claim 1, characterized in that wherein the

radiopaque material contains gold, platinum or palladium.

13. (New) A stent as set forth in claim 2, wherein the stent has a self-expanding carrier

structure.

14. (New) A stent as set forth in claim 13, wherein the carrier structure includes a shape

memory metal which changes its shape at a change temperature, wherein the stent is of

such a design configuration that the stent retains a compressed condition below the

change temperature and assumes an expanded condition above the change temperature.

15. (New) A stent as set forth in claim 1, wherein the marker element forms at least a part

of the carrier structure in the region of a longitudinal end of the stent.

16. (New) A stent as set forth in claim 15, wherein the marker element is welded to the rest

of the carrier structure in the region of a longitudinal end of the stent.

17. (New) A stent as set forth in claim 5, wherein the marker element forms at least a part

of the carrier structure in the region of a longitudinal end of the stent.

18. (New) A stent as set forth in claim 17, wherein the marker element is welded to the rest

of the carrier structure in the region of a longitudinal end of the stent.

19. (New) A stent as set forth in claim 5, wherein the marker element forms at least a part

of the carrier structure in the region of a longitudinal end of the stent.

20. (New) A method of treating a patient, the method comprising implanting a stent into the

patient, wherein the stent comprises a cut out metal tube and at least one marker

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element, and wherein the at least one marker element includes comparatively

radiopague material and further wherein the marker element is attached to the rest of

the carrier structure and the radiopaque material is completely enclosed by a cover layer

of a material other than the radiopaque material and the cover layer including a metal or

a metal compound.

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